

What is claimed is:

*Sub B*

(1) A denitrifying composition for microbially removing nitrates nitrogen comprising particles of calcium carbonate dispersed in sulfur.

(2) A denitrifying composition as described in claim 1 wherein particles of calcium carbonate and those of a substance possessing cation exchange capacity are dispersed in sulfur.

(3) A denitrifying composition as described in claim 1 wherein particles of calcium carbonate and those of a microporous substance are dispersed in sulfur.

(4) A denitrifying composition as described in any one of claims 1 to 3 wherein the ratio by weight of sulfur to calcium carbonate is 1:0.3 to 1:3.

(5) A denitrifying composition as described in claim 3 wherein 10 parts by weight of sulfur coexists with 10-15 parts by weight of calcium carbonate and 1.3 parts by weight of a microporous substance.

*Sub A2*

(6) A denitrifying composition as described in any one of claims 1 to 5 wherein said sulfur is amorphous sulfur.

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(7) A denitrifying composition as described in claim 1 wherein the shape of said composition is granular, massive or molded.

*Sub A3*

(8) A denitrifying material comprising a mixture of a denitrifying composition as described in any one of claims 1 to 7 and mineral fibers.

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(9) A denitrifying material as described in claim 8 wherein said mineral fibers are rock wool.

(10) A process for producing a denitrifying composition for microbially removing nitrates nitrogen which comprises heating powder of calcium carbonate thereby melting the sulfur and dispersing the powder of calcium

*Sub D*

carbonate in the liquid sulfur and solidifying the dispersion by rapid cooling.

(11) A process for producing a denitrifying composition as described in claim 10 which comprises mixing 10 parts by weight of sulfur, 10-15 parts by weight of powder of calcium carbonate and 1-3 parts by weight of powder of a microporous substance, melting the sulfur, dispersing the powders of calcium carbonate and the microporous substance in liquid sulfur and solidifying the dispersion by rapid cooling.

(12) A process for producing a denitrifying composition as described in claim 10 or 11 wherein the powder of calcium carbonate exhibits a specific surface area of 2,000-5,000 cm<sup>2</sup>/g by air permeability determination.

(13) A process for producing a denitrifying composition as described in claim 11 wherein the microporous substance is a mineral product such as kieselguhr or a carbonaceous materials such as charcoal.

(14) A process for producing a denitrifying composition as described in claim 10 or 11 which comprises crushing or molding the solid obtained by rapid cooling into a massive, granular or molded form.